

## I. TRANSITIONING N1-1 TO SECONDARY FROM OFF/DIAGNOSTIC/ STANDBY WHILE N1-2 IS PRIMARY

- PCS2      1. VERIFY MDM STATE  
Node 1: C&DH: MDM N1-2  
PRIMARY NCS MDM Node 1
- √STATE - Primary  
√MDM ID - N1-2
- If N1-1 is Off, go to step 2.  
If N1-1 is in Diagnostic state, go to step 3.  
If N1-1 is in Standby state, go to step 5.
- PCS2      2. IF N1-1 IS INITIALLY OFF, BRING IT TO STANDBY  
Node 1: C&DH: MDM N1-1  
SECONDARY NCS MDM Node 1  
'RPCM \_N1RS1\_A'
- sel RPC 11 (Nod1\_1\_MDM)
- RPCM \_N1RS1\_A\_RPC\_11 Detail
- √Position - Op  
sel Commands  
**cmd** Close **Execute**  
√Position - CI
- Wait at least 90 seconds for MDM to start up, finish POST, and go to Standby.
- Go to step 4.
- PCS2      3. IF N1-1 IS INITIALLY IN DIAGNOSTIC STATE, BRING IT TO STANDBY  
Node 1: C&DH: MDM N1-1  
SECONDARY NCS MDM Node 1
- √Frame Count - static
- PCS2      Node 1: C&DH: MDM N1-2  
PRIMARY NCS MDM Node 1  
'Software Control'
- sel Transmit Mode Code
- Primary\_NCS\_Transmit\_Mode\_Code

sel Primary NCS Xmt Mode Code Commands  
**cmd** Xmt\_Stat\_Word\_Tmplt  
enter Bus ID - 2  
enter RT Address - 6 **Execute**

√Subsystem Flag Set - X (set)

If Subsystem Flag Bit is set, N1-2 MDM is in Diagnostic State and is ready to accept diagnostic commands.

PCS2

Node 1: C&DH: MDM N1-1

PRIMARY NCS MDM Node 1

'Software Control'

sel MDM Utilities  
sel Commands

**NOTE**

1. Check with **MCC** for which command to send (reinit from DRAM or EEPROM).
2. For DRAM Reinitialization  
Startup process will execute from the UAS currently loaded in DRAM.  
No POST is performed.
3. For EEPROM Reinitialization  
Reinitialize MDM from EEPROM will cause the loss of all current information in the DRAM such as BST, current Bus, RT, and application configuration.  
All UAS and default Configuration Tables will be loaded from EEPROM.  
Normal POST will be performed.

If reinitialize from DRAM

**cmd** N1\_1\_MDM\_Re\_Init\_MDM\_DRAM **Execute**

If reinitialize from EEPROM

**cmd** N1\_1\_MDM\_Re\_Init\_MDM\_EEPROM **Execute**

Wait 60 seconds for MDM to reinitialize.

4. VERIFY N1-1 IS IN STANDBY STATE

PCS2

Node 1: C&DH: MDM N1-1

SECONDARY NCS MDM Node 1

√Frame Count - incrementing

'MDM Major State:'

√N1-1 MDM State - Standby  
√MDM ID - N1-1

```
* ***** *  
* If state is not Standby *  
*                               *  
*   √MCC                       *  
* ***** *
```

PCS2 5. COMMAND N1-1 TO SECONDARY  
Node 1: C&DH: MDM N1-1

SECONDARY NCS MDM Node 1

'MDM Major State:'

sel Commands  
**cmd** N1-1\_MDM\_Xsitn\_Second\_State **Execute**

PCS2 6. VERIFY N1-1 IS SECONDARY

Node 1: C&DH: MDM N1-1

SECONDARY NCS MDM Node 1

√Frame Count - incrementing

'MDM Major State:'

√MDM State - Secondary  
√MDM ID - N1-1

```
* ***** *  
* If state is not correct *  
*                               *  
*   √MCC                       *  
* ***** *
```

PCS2 7. VERIFY MDM HEATER AND SHELL HEATER CONFIGURATION  
Node 1: C&DH: MDM N1-1

SECONDARY NCS MDM Node 1

'RPCM N1RS1 A'

sel RPC 5  
sel Commands  
√Position - CI

'N1-1 Operational'

√MDM N1-1 Op Htr Availbty - Ena Ops  
√MDM N1-1 Op Htr Health Stat - Operational

'N1-2 Survival'

√MDM N1-2 Surv Htr Availbty - Ena Ops

√MDM N1-2 Surv Htr Health Stat - Operational

√**MCC** for PMA 1 and Node 1 Shell Heater configuration